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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,359	09/25/2003	Charles Zdzislaw Loboz	614-L	7112

7590 03/24/2006

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EXAMINER

TIMBLIN, ROBERT M

ART UNIT	PAPER NUMBER
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2167

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

This action is responsive to application 10/671,359 filed 9/25/2003.

Claims 1-13 have been examined and are pending prosecution.

Drawings

Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. Specifically, page 8 of the specification presents figure 2 as an example of a "known database schema." See MPEP § 608.02(g).

Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: Examiner requests the brief description of the drawings section on page 8 to be labeled and headed "Brief Description of the Drawings. See MPEP 608.01.

Appropriate correction is required.

Claim Objections

Claim 12 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim.

Claim 4 is also objected to for being multiply dependent on itself. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-8 and 10-13 are rejected under 35 U.S.C. 102(e) as being anticipated by **Fong et al.** ('Fong' hereinafter) (US 2004/0064456 A1).

With respect to claim 1, **Fong** discloses A method for implementing a database, comprising the steps of:

'providing at least one set of linked entities' as multiple sets of entities (figures 1, 3, 8, 9).

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'at least one set of linked entities contains a plurality of entities and each said entity is arranged to store at least one data value' as each entity containing at least one attribute value (fig. 1).

'providing an additional entity for at least one set of linked entities' as an aggregate entity (0056 and fig. 4).

'storing in the additional entity the aggregation of a plurality of data values contained in the at least one set of linked entities' as the aggregate entity contains a relationship set with corresponding entities into a single entity set (0056 and fig. 4).

Claims 2, 3, 6, 7, and 8, contain essentially the same subject matter as that of claim 1 as set forth above. Therefore, claims 2, 3, 6, 7, and 8, are rejected for the same reasons as claim 1 set forth above.

With respect to claim 10, **Fong** discloses **'at least one set of linked entities'** (fig. 1).

With respect to claim 11, **Fong** discloses **'an aggregation of all data values stored in the at least one set of linked entities'** (0056 and fig. 4).

With respect to claim 12, **Fong** discloses. **A computer program arranged, when loaded on a computing system, to implement the method'** as a computer program being implied (table 1 of 0079, 0091, and 0132).

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With respect to claim 13, **Fong** discloses 'a computer readable medium providing a computer program' as being inherent with the implication of a computer program.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Fong** as applied to claims 1-3, 6-8 and 10-13 above in view of **Prabhakaran et al.** ('Prabhakaran' hereinafter) (US Patent 6,859,758 B1).

With respect to claim 4, **Fong** fails to disclose determining the read/write ratio of the database.

Prabhakaran, however, discloses determining the read/write ratio of the database' as using a read to write ratio (col. 5, line 49 – col. 6, line 24 and fig. 3).

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because **Prabhakaran's** teaching would have allowed **Fong** to measure the performance of storage system (Prabhakaran, col. 2, lines 20-23). Furthermore, read and/or write commands would be provided to test the storage system (Prabhakaran, col. 2, lines 30-42).

With respect to claims 5 and 9, **Prabhakaran** discloses

'providing data with regard to the time taken to perform a read operation and a write operation on a first implementation of the database' as generating read/write commands to a database storage system (col. 2, lines 30-42 and fig. 3).

'providing data with regard to the time taken to perform a read operation and a write operation on a second implementation of the database' as stress tests can be spawned against a plurality of databases (col. 2, lines 35-40).

'calculating a read time difference between the time taken to perform a read operation on a first implementation of a database and a second implementation of a database' and **'calculating a write time difference between the time taken to perform a write operation on a first implementation of a database and a second implementation of a database'** as testing all reads and all writes as there may be a performance difference between read and write operations (col. 5, lines 55-65).

'calculating the ratio between the read time difference and the write time difference to determine the read/write ratio for the database' as statistical information containing read and write operations completed by the database (col. 6 line 62 – col. 7, line 2). Furthermore, performance measures include a mixture of read and write operations for comparing architectures (col. 7, lines 10-18).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. 6,061,689 issued to **Chang et al.** on 5/9/2000. The subject matter disclosed therein is pertinent to that of claims 1-3, 6-8 and 10-13 (i.e. aggregation of objects).

U.S. 2003/0233382 A1 filed by **Gemba et al.** on 2/20/2003. The subject matter disclosed therein is pertinent to that of claims 4, 5 and 9 (i.e. read/write ratio).

U.S. 6,052,694 issued to **Bromberg** on 4/18/2000. The subject matter disclosed therein is pertinent to that of claims 4, 5 and 9 (i.e. logging read/write performance characteristics).


U.S. 2004/0267553 A1 filed by **Brunton** on 6/25/2003. The subject matter disclosed therein is pertinent to that of claims 4, 5 and 9 (i.e. evaluating storage options).

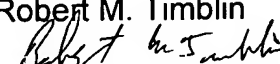
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Timblin whose telephone number is 571-272-5627. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Leslie Wong
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Patent Examiner AU-2167

RMT
3/9/2006